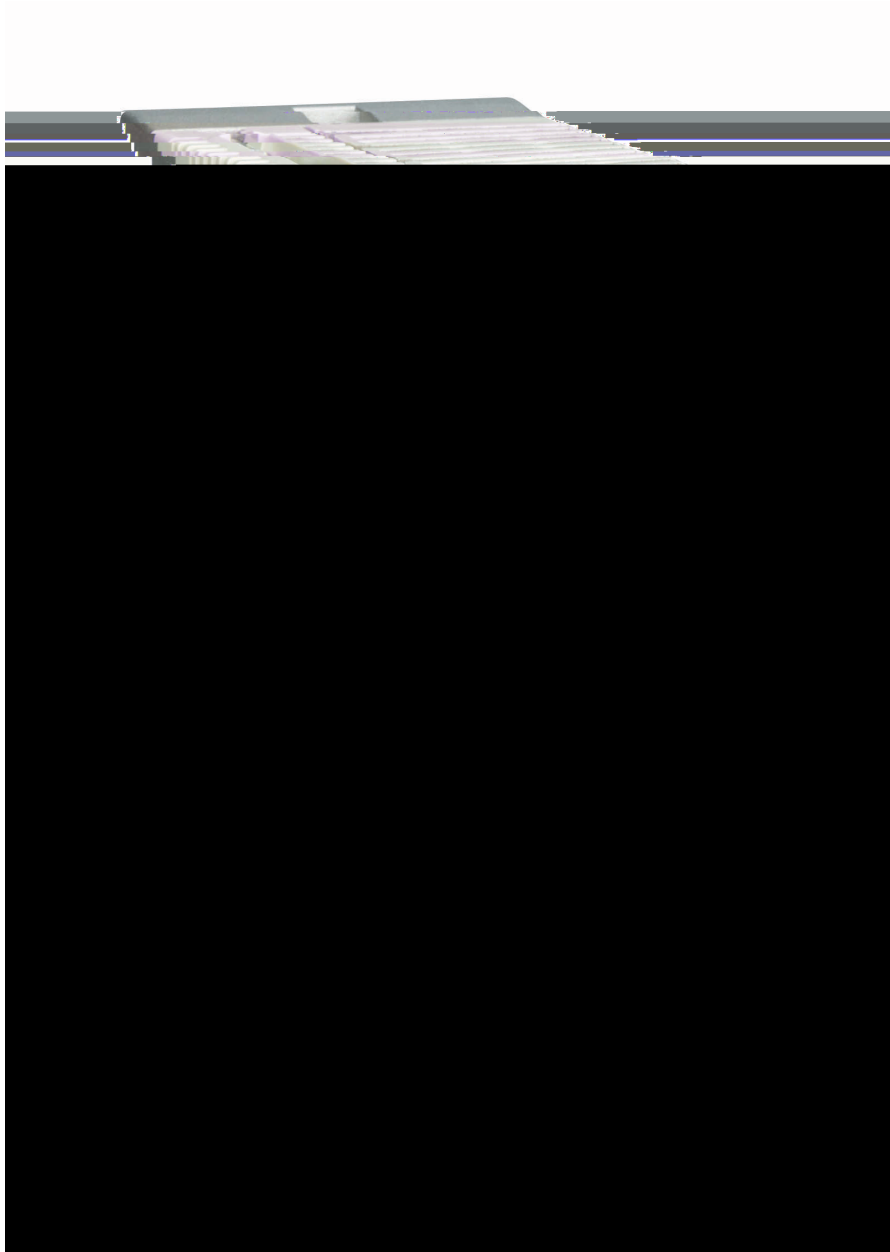


Product Environmental Profile

XPSMC Preventa Safety Controller





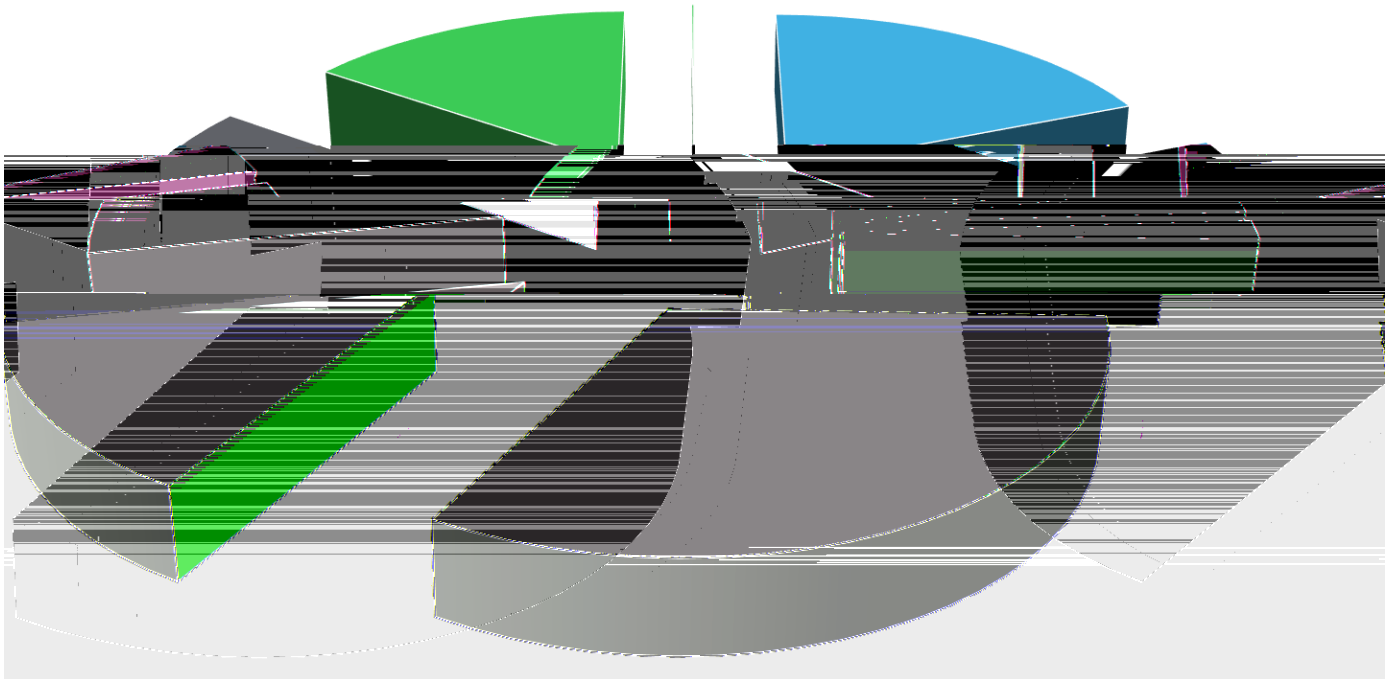
General information

| | |
|----------------------------|---|
| Representative product | XPSMC Preventa Safety Controller - XPSMC32ZC |
| Description of the product | Configurable Safety Controller XPS-MC - 24V DC 32 - input - 48 LEDs signalling |
| Description of the range | The XPSMC family consists of configurable safety controllers, differentiated by count of inputs and field bus communication capabilities. This range consists of three safety controllers with 16 inputs and three safety controllers with 32 inputs. The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology. |
| Functionality | to provide monitoring of hazardous movements in medium complex machines where multiple safety means are required from 16 inputs to 32 inputs 100% of the time for 10 years. |



Constituent materials

| | |
|------------------------|---|
| Reference product mass | 1258.3 g including the product, its packaging and additional elements and accessories |
|------------------------|---|



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>

Additional environmental information

The XPSMC even t safety on t represent st he f obw n ge even t en vi on r n t aspects

Manufacturing

Manufactured at a Schneider Electric production site ISO14001 certified

Distribution

Weight and volume of the packaging optimized, based on the European Union's packaging directive
Packaging weight is 354.1 g, consisting of cardboard (45%), paper (50%), polyethylene film (< 0.1%) and polycarbonate (CDROM) (4.7%)

Installation

does not require any specific installation operations

Use

The product does not require special maintenance operations.

End of life optimized to decrease the amount of waste and allow recovery of the product components and materials

The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>

Recyclability potential: **60%** (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental impacts

Installation events

The transport of the packaging for disposal and disposal occurs during the installation phase

Use scenario

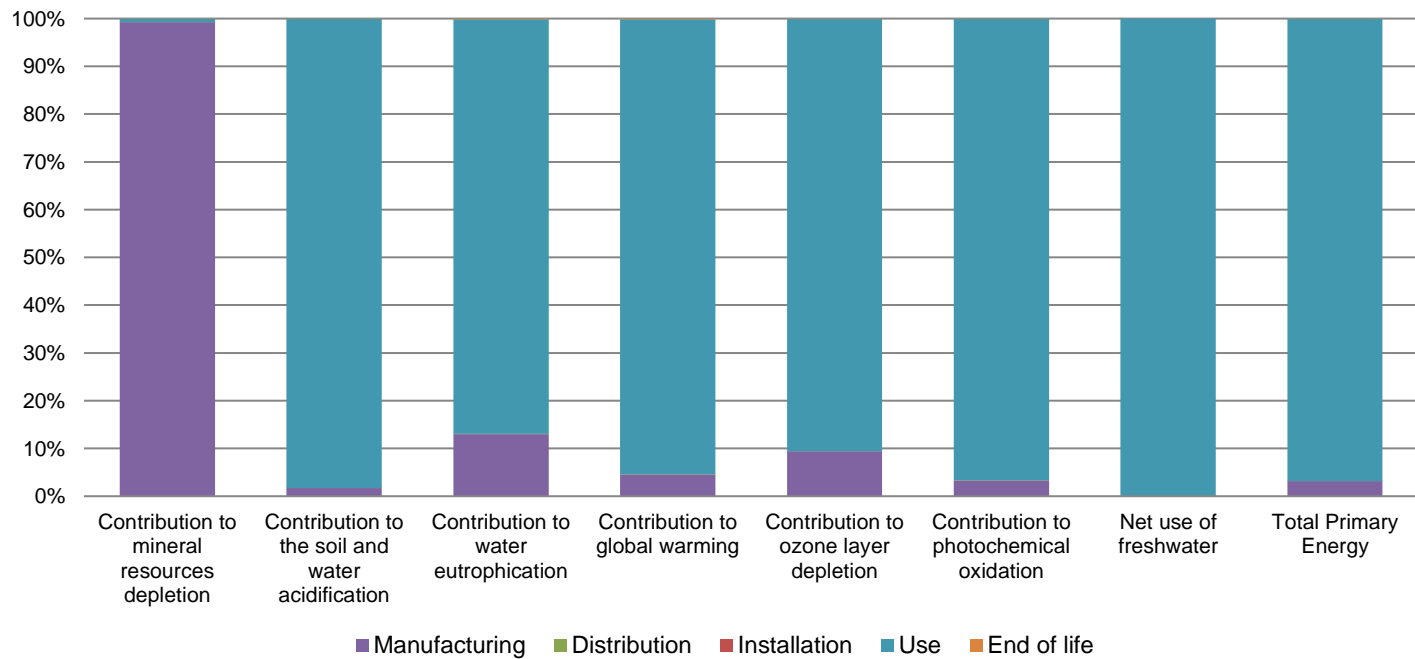
The product is in active mode 100% of the time with a power use of 12W for 10 years.

Europe

Configurable Safety Controller XPS-MC - 24V DC 32 - input - 48 LEDs signalling

| Manufacturing | Installation | Use | End of Life |
|---------------------------|--|--|--|
| Energy model used: France | Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27 |

| | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
|--|-------------------------------------|----------|---------------|--------------|--------------|----------|-------------|
| Contribution to the soil and water acidification | kg Sb eq | 6.06E-03 | 6.02E-03 | 0* | 0* | 4.48E-05 | 0* |
| | kg SO ₂ eq | 2.19E+00 | 3.70E-02 | 7.41E-04 | 0* | 2.15E+00 | 5.10E-04 |
| | kg PO ₄ ³⁻ eq | 1.50E-01 | 1.94E-02 | 1.71E-04 | 0* | 1.30E-01 | 2.36E-04 |
| | kg CO ₂ eq | 5.40E+02 | 2.43E+01 | 1.62E-01 | 0* | 5.15E+02 | 7.14E-01 |
| Contribution to ozone layer depletion | kg CFC11 eq | 3.71E-05 | 3.51E-06 | 0* | 0* | 3.36E-05 | 2.56E-08 |
| Contribution to photochemical oxidation | kg C ₂ H ₄ eq | 1.22E-01 | 4.01E-03 | 5.29E-05 | 0* | 1.18E-01 | 4.39E-05 |
| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Net use of freshwater | m3 | 1.87E+03 | 1.93E-01 | 0* | 0* | 1.87E+03 | 0* |
| Total Primary Energy | MJ | 1.06E+04 | 3.34E+02 | 2.30E+00 | 0* | 1.03E+04 | 2.23E+00 |



| Impact Category | | XPS Event Set on XPS | | | | | | |
|---|------|----------------------|---------------|---------------|--------------|--------------|-------------|-------------|
| Impact Category | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life | |
| Contribution to fossil resources depletion | MJ | 6.14E+03 | 2.93E+02 | 2.28E+00 | 0* | 5.85E+03 | 2.08E+00 | |
| Contribution to air pollution | m³ | 2.60E+04 | 3.85E+03 | 6.91E+00 | 0* | 2.22E+04 | 1.61E+01 | |
| Contribution to water pollution | m³ | 2.37E+04 | 2.38E+03 | 2.67E+01 | 0* | 2.13E+04 | 3.23E+01 | |
| Resources | | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Use of secondary material | kg | 2.03E-01 | 2.03E-01 | 0* | 0* | 0* | 0* | |
| Total use of renewable primary energy resources | MJ | 1.32E+03 | 1.69E+01 | 0* | 0* | 1.31E+03 | 0* | |
| Total use of non-renewable primary energy resources | MJ | 9.30E+03 | 3.17E+02 | 2.29E+00 | 0* | 8.98E+03 | 2.23E+00 | |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 1.32E+03 | 1.35E+01 | 0* | 0* | 1.31E+03 | 0* | |
| Use of renewable primary energy resources used as raw material | MJ | 3.38E+00 | 3.38E+00 | 0* | 0* | 0* | 0* | |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 9.29E+03 | 3.06E+02 | 2.29E+00 | 0* | 8.98E+03 | 2.23E+00 | |
| Use of non renewable primary energy resources used as raw material | MJ | 1.15E+01 | 1.15E+01 | 0* | 0* | 0* | 0* | |
| Use of non renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | |
| Use of renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | |
| Waste categories | | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Hazardous waste disposed | kg | 2.30E+01 | 2.07E+01 | 0* | 0* | 2.69E-01 | 2.09E+00 | |
| Non hazardous waste disposed | kg | 1.93E+03 | 6.52E+00 | 0* | 0* | 1.92E+03 | 0* | |
| Radioactive waste disposed | kg | 1.29E+00 | 8.36E-03 | 0* | 0* | 1.28E+00 | 0* | |
| Other environmental information | | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Materials for recycling | kg | 8.09E-01 | 9.32E-02 | 0* | 1.63E-01 | 0* | 5.53E-01 | |
| Components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | |
| Materials for energy recovery | kg | 1.89E-01 | 1.41E-03 | 0* | 0* | 0* | 1.88E-01 | |
| Exported Energy | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | |

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.7.0.1, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

Depending on the impact analysis, the environmental indicators (without Mineral Resources Depletion) of other products in this family may vary. The mass of the product without its packaging.

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

| | | | |
|---|----------------------|-------------------------------------|--|
| Registration number : | SCHN-00342-V01.01-EN | Drafting rules | PCR-ed3-EN-2015 04 02 |
| Verifier accreditation N° | VH25 | Information and reference documents | www.pep-ecopassport.org |
| Date of issue | 06/2018 | Validity period | 5 years |
| Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 | | | |
| Internal | External | X | |
| The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN) | | | |
| PEP are compliant with XP C08-100-1 :2014 | | | |
| The elements of the present PEP cannot be compared with elements from another program. | | | |
| Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations » | | | |



Schneider Electric Industries SAS
Country Customer Care Center
<http://www.schneider-electric.com/contact>

35, rue Joseph Monier
CS 30323
F- 92506 Rueil Malmaison Cedex
RCS Nanterre 954 503 439

www.schneider-electric.com

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